

# Taja Oneail

Principal Civil  
Engineer

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## Details

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2055 W Camelback Rd, Phoenix, AZ 85015

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## Profile

I am a Principal Civil Engineer with over 10 years of experience in the industry. I have worked on projects of all sizes, from small residential developments to large-scale commercial and industrial complexes. I have a thorough understanding of civil engineering principles and practices, as well as construction methods and materials. I am an effective communicator and project manager, able to successfully coordinate teams of engineers, architects, contractors, and other professionals. I am also proficient in AutoCAD software. In my most recent position, I was responsible for overseeing the design and construction of a new shopping center development.

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## Employment History

### Principal Civil Engineer at Desert Star Engineering, AZ

Apr 2022 - Present

- Led a team of engineers in the development of a new bridge design that has been used in over 100 projects.
- Conducted root cause analysis on failed bridges and developed report with recommendations for future designs.
- Authored or co-authored 12 papers published in civil engineering journals. Achievements include:
  - O 1st prize at International Conference of Bridge Engineering (iCBE).
  - O 2nd prize at American Society of Civil Engineers' (ASCE) Leonard Geddes Symposium.
  - O 3rd place Paper award from Geolnstitute ASCE conference.
- Reviewed over 500 journal manuscripts as an Associate Editor for the Journal of Bridge Engineering, International Journal Of Structural Stability And Dynamics, and Frontiers In Built Environment – Transportation Systems & Infrastructure Section. • As visiting scholar, gave lectures on “Large Scale Multi-hazard Analysis and Design Optimization Techniques” at Tongji University Shanghai China and Zhejiang University Hangzhou China in 2016. • Managed multimillion dollar construction projects including schedule, budget, materials procurement.

### Senior Civil Engineer at Southwest Civil & structural Engineers, Inc, AZ

Aug 2017 - Mar 2022

- Constructed a new wing on an elementary school which included 8 classrooms, 2 restrooms, and a storage closet - project completed ahead of schedule and under budget.
- Successfully negotiated with 3 different contractors to complete the above-mentioned construction projects.
- Drafted plans for a city-wide mass transit system which was approved by the city council.
- Led a team of engineers in designing a safely sturdy bridge that spanned 4 miles and carried 100,000 cars daily.
- Saved the company \$20 million over 5 years through efficient design practices.

- Cut water main break response time from 48 hours to 6 hours.

## Principal Civil Engineer at PSOMAS, AZ

Jul 2012 - Jul 2017

- Led a team of 12 engineers in the design of a \$6 million dollar water treatment plant.
- Designed and oversaw the construction of a new wastewater system for an industrial park, which included 5 miles of piping and 2 pumping stations.
- Was responsible for the analysis and shearing strength testing of 500 metal beams used in high-rise buildings.
- Successfully completed hydrological studies for 4 major river basins.
- Assisted in developing GIS protocols that are currently being used by 3 local government agencies.
- Wrote proposals that secured over \$2 million dollars in funding for various projects.

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## Education

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### Bachelor of Science in Civil Engineering at Arizona State University

Aug 2008 - May 2012

I've learned how to design and analyze structural systems, how to manage construction projects, and how to perform various civil engineering calculations.

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## Links

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[linkedin.com/in/tajaoneail](https://www.linkedin.com/in/tajaoneail)

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## Skills

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Teamwork



Management



Engineering



Civil engineering



Technical skills



Communication



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## Languages

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English



Dutch



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## Hobbies

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Reading

Traveling

Cooking

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## Certificates

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Professional Engineer (PE)

Jan 2021

**Certified Floodplain Manager (CFM)**

Mar 2019

**Certified Construction Manager (CCM)**

Jul 2017

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**Memberships**

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**American Society of Civil Engineers (ASCE)**

**American Council of Engineering Companies (ACEC)**